

# CLASS XI GUESS PAPER INFORMATICS PRACTICES

Gen	eral I	nstructions:				MM:	70
		1.	All questions	are compulsory			
		2.	Answer in sea	<i>диепсе</i> .			
		3.	. Put the quest	ions no. properl	у.		
		4.	Programming	g Language <b>Jav</b>	a & Datab	pase MySQL	
Q1.							
a.	Ans	wer the following	g questions :				(4)
	i. ii. iii. iv.	Give the relation What is a compu	ship between By ter virus ? How	rte and gigaby can it affect yo	te. our comp		
b.	iv. How is backup utility useful? Is it necessary to take backup of data? <b>Give example for each of the following:</b>					(2)	
	i.	A language proc		-	oftware.		( )
	iii.	A package softw		<i>J</i>		er.	
c.	Diff	erentiate betweer		1	•		(4)
	i.	A volalite and no	on volalite memo	ory.	ii.	Compiler and Interpreter.	` /
	iii.	Machine languag	ge and High leve	el language.	iv.	System s/w and Application	on s/w.
Q2.							
a.	Ans	swer the following	g questions :				
	i.	What is e-Busines	ss?				(1)
	ii.	If you are e-Learn	ner,how e-Learn	ing will benefi	t you?		(2)
		How does the e-I	_	daily life of a	common	man ?	(2)
Q3.		nswer the following	<u> </u>				
		i. Differentiate					(2)
			nd Varchar				
			significance of D query in MySQL		and ? Ho	w does the WHERE clause	(2)



```
iii.
              What are views? How are they useful?
                                                                                            (2)
         iv.
              Define SQL. Explain SQL subcategories giving at least one example in each category.
                                                                                            (4)
         Answer the following questions:
Q4.
         i) Find the output of the following program segment :
a.
                                                                                            (3)
         int i,j,k,x=0;
         for(i=0;i<5;++i)
           for(j=0;j< i;j++)
            switch(i+j-1)
             case -1:
             case 0:
                  x+=1:
                  break;
              case 1:
              case 2:
              case 3:
                 x+=3;
              default:
                 x+=3;
            System.out.println(x + " \ t");
         System.out.println("\n");
         System.out.println(x);
       ii) What will be the final value of digit?
                                                                                            (2)
           int digit;
           for(digit = 0; digit <= 9; digit++)
           System.out.print(digit);
           digit = 2 * digit;
           - - digit;
            (a) 19 (b) -1 (c) 17 (d) 16
b.
         Find the syntax error(s), if any in the following program;
          Rewrite the code after making the correction.
                                                                                            (2)
```



```
int a = 5;
        int b=6; sum=0;
        System.out.print("a = " a);
        sum = + a;
        if (sum>0);
        System.out.print("b = " +b);
        else
        System.out.print("a = " + a);
        Rewrite the following code using for loop:
                                                                                  (2)
c.
        int i, sum = 0;
        while (i < = 10)
          sum =sum +i;
          i++;
        System.out.print(sum);
        Write the equivalent switch statement for the following:
d.
                                                                                  (2)
        if (code == 'R' | | code== 'W')
        System.out.println("Rainy Season");
        System.out.println("Winter Season");
        else if (code == 'S')
        System.out.println("Summer Season");
        System.out.println("Spring Season ");
```

e. Create a Java Desktop Application to find the Discount of an item on the basis of Category of item[Electrical Appliance/Electronic Gadget / Stationary ]. The Categories will be implemented in JRadioButton controls. The Discount will be calculated as follows:

(4)

COST	DISCOUNT(%)
<=1000	5
Otherwise	10

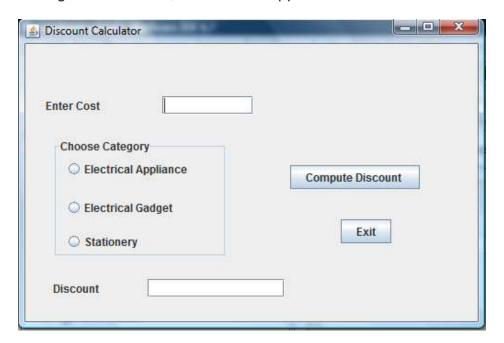
The extra Discount will be calculated as follows:

CAMPROOPE	DIGGOTINIE(A()
CATEGORY	<b>DISCOUNT(%)</b>



Electrical Appliance	3
Electrical Gadget	2
Stationary	1

- Calculate the total discount as: Discount on cost +Discount on Category
- Calculate the discount amount as : cost \* discount
- On clicking of Exit Button ,it will exit the application



Control	Property Name	Property Value	
JFrame	Title	Discount Calculator	
Jlabel1	Text	Enter Cost	
Jlabel2	Text	Discount	
JTextField1	Variable Name	txtCost	
JTextField2	Variable Name	txtDiscount	
JRadioButton1	Text	Electrical Appliance	
JNauloBulloll	Variable Name	rdbtn1	
IDadio Dutton 2	Text	Electrical Gadget	
JRadioButton2	Variable Name	rdbtn2	
JRadioButton3	Text	Stationery	



	Variable Name	rdbtn3
JButton1	Variable Name	btnComp
JButton2	Variable Name	btnExit

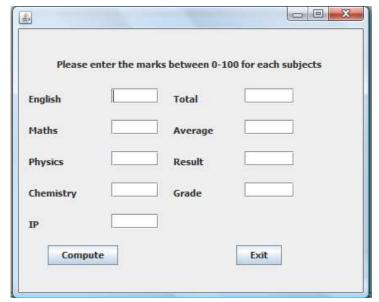
**Q5.** 

a. Create a Java Desktop Application to perform the following calculations:

**(4)** 

- i) Calculation of Total and Average Marks
   Total = English + Maths + Physics + Chemistry + IP
   Average = Total / 5
- ii) Displaying the Distinction /Average Marks based on the Total Marks scored.
- iii) Displaying the grade (A,B,C,D,F) based on the average marks scored.
- iv) On clicking of Exit Button ,it will exit the application.

AVERAGE	RESULT	GRADE
>=75	Distinction	Α
>=60	First Class	В
>=50	Second Class	С
>=40	Average	D
Otherwise	Fail	F



Enter five Subject marks. Also the entered marks should be between 0 and 100 for each subject.



Control	<b>Property Name</b>	Property Value
JFrame	Title	Calculation of Result
Jlabel1	Text	Please enter marks between 0-100 for
		each subjects
Jlabel2	Text	English
Jlabel3	Text	Maths
Jlabel4	Text	Physics
Jlabel5	Text	Chemistry
Jlabel6	Text	IP
Jlabel7	Text	Total
Jlabel8	Text	Average
Jlabel9	Text	Result
Jlabel10	Text	Grade
JTextField1	Variable Name	txtEng
JTextField2	Variable Name	txtMaths
JTextField3	Variable Name	txtPhy
JTextField4	Variable Name	txtChem
JTextField5	Variable Name	txtIP
JTextField6	Variable Name	txtTot
JTextField7	Variable Name	txtAvg
JTextField8	Variable Name	txtRes
JTextField9	Variable Name	txtGrd
JButton1	Variable Name	btnComp
JButton2	Variable Name	btnExit

- b. Write a method Min\_Three that returns the smallest of three floating point numbers. (2)
- c. Write a method Check Vowel for a Java class that accepts a character and check whether it is a vowel or a consonant. It returns 1 if character is a vowel else it returns 0. (2)
- d. An integer is said to be prime if it is divisible only by 1 and itself. For example 2,3,5 and 7 are prime but 4,6 and 9 are not prime. Write a method PrimeCheck that determines if a number is prime or not.

# **Q6.** Answer the following questions:

- **a.** Which command is used to change column size from VARCHAR(10) to VARCHAR(50). (1)
- b. What is a NULL value? (1)
- c. What do % and \_ mean inside SELECT with LIKE statement? Explain with the help of examples of each. (2)
- d. After creating the "employee" database, you want to use it. Write the command that you should give. (2)
- e. What will be the putput of the following: (2)



- i. SELECT ROUND(124.44) + POW(4,3);
- ii. SELECT LOWER(SUBSTR(TRIM('INDIAN NATIONAL CONGRESS'),4,10));
- iii. SELECT LEFT(TRIM('IPL2010-12MAR'),5);
- iv. SELECT MONTHNAME(19-03-2010);
- f. Write the purpose of the following clause using suitable example :

**(2)** 

(10)

i. DISTINCT

ii. ORDER BY

# Q7. Write SQL commands for the queries given from a to f and write the output of the SQL commands given in part g based on a table LIBRARY shown below: Table: LIBRARY

No. **Title Publisher** Author **Subject Ouantity Price** 1 Data Structure DS McGraw 4 217.00 Lipschute 2 DOS Guide **NORTRON** OS 3 175.00 PHI 3 Turbo C++ Robort Lafore Prog Galgotia 5 270.00 4 **Dbase Dummies** Palmer **DBMS PustakM** 7 130.00 5 OS 1 Mastering Windows Cowart **BPB** 225.00 2 **Computer Studies** French **FND** Galgotia 75.00 6 7 John W **COBOL** Stern Prog 4 1000.00 8 Guide Network Freed **NET Zpress** 3 200.00 9 Basic for Beginners 40.00 Norton **BPB** 3 **Prog** 10 Advanced Pascal Schildt Prog McGraw 4 350.00

- a) To display the title of all books with Price between 100 and 300.
- b) To display Title and Author of all the books having type Prog and published by BPB.
- c) To display the list of all the books with price more than 130 in ascending order of Qty.
- d) To display the list of all books whose quantity is less than 4.
- e) To display the publishers and the number of books of each book in the table.
- f) To insert a new book in the table LIBRARY.
- g) To increase the price of the book title 'TURBO C++' by Rs.30.
- h) To display the **Title** and **Total Price** of all Computer books. The Total Price is calculated as **Price \* Qty**.
- i) Write the output of the following:
  - i. Select MIN(Price) from Library;
  - ii. Select Sum(Price \* Qty) from Library where Qty > 3;
  - iii. Select Avg(Price) from Library where Qty < 4;

\_\_\_\_\_\_



iv.

# CBSEGuess.com

\*\*\*\*\*BEST OF LUCK \*\*\*\*\*\*\*\*\*

Select Count(Distinct Publisher) from Library;